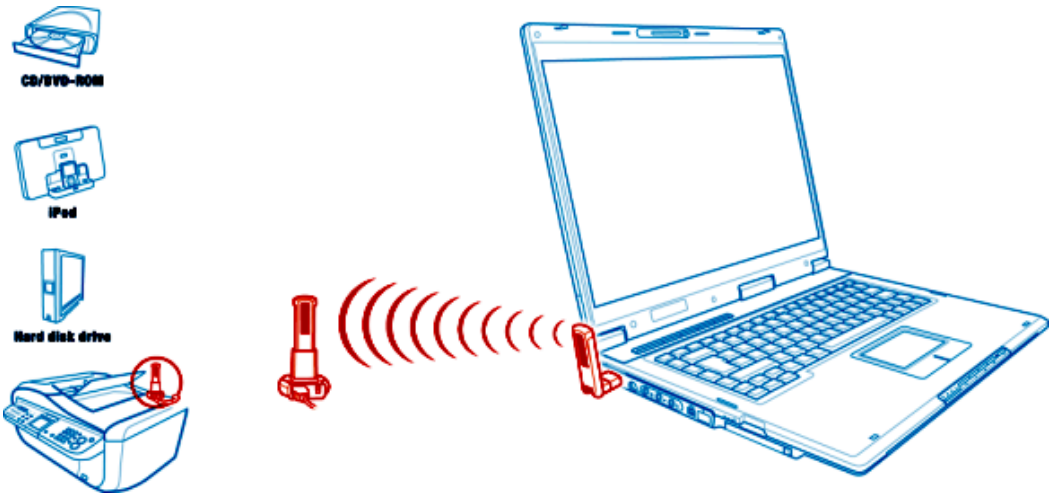
Wireless USB Adapter Set

User guide v2



www.olidata.com/wusb

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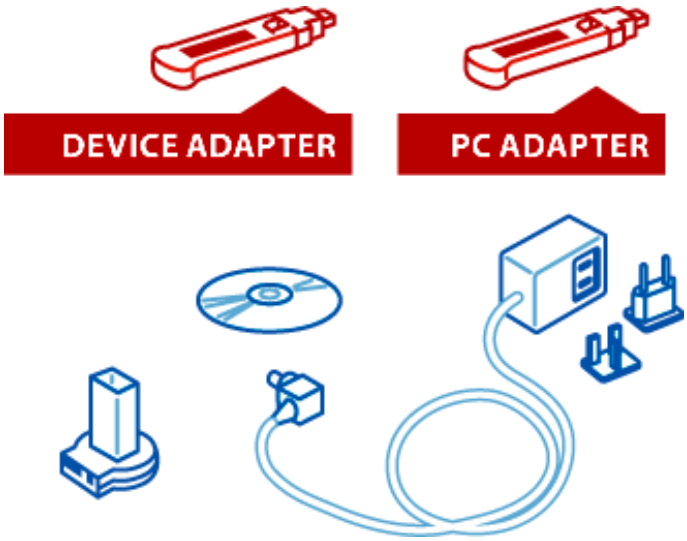
1 Introduction

The Wireless USB Adapter Set solution offers instant Wireless USB connectivity between a PC and a USB device using a simple kit consisting of a PC Adapter (Host side dongle) and a Device Adapter (Device side dongle).
The Adapters kit implements Wireless USB specifications (http://www.usb.org) and it can interoperate with any other Wireless USB certified solution.

1.1 Package contents

The package includes:

- 1 USB dongle, marked as PC Adapter;
- 1 USB dongle, marked as Device Adapter;
- 1 USB cradle;
- 1 power supply;
- 1 software and documentation CD;
- 1 printed Quick Start Guide.



Note: To correctly use this product, the user must be able to properly distinguish between PC Adapter and Device Adapter, because they play different roles within the set.

In order to correctly identify the two Adapters, please refer to labels on back sides, as shown in the following figure:

Figure 1: PC Adapter and Device Adapter

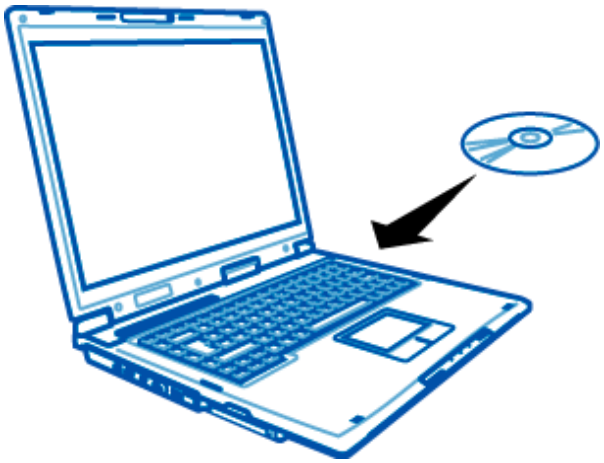
1.2 System requirements

Operating System: Microsoft Windows™ XP w/ Service Pack 2 o 3, Microsoft Windows™ Vista w/ Service Pack 1.

Hardware: Personal Computer (notebook or desktop) equipped with at least two USB ports (best performances with USB 2.0) or with one USB port connected to a USB hub (an external device that multiplies the number of USB ports connected to a computer).

1.3 Installation steps in short

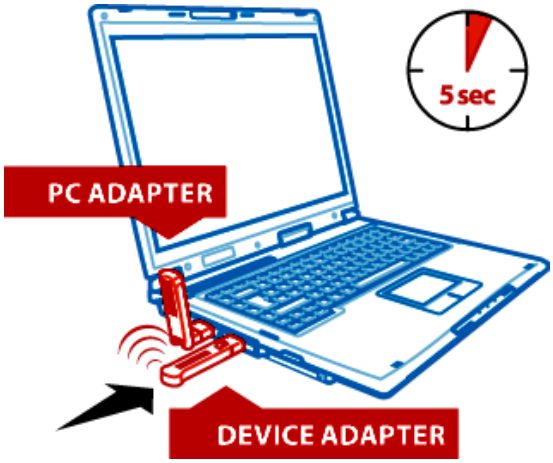
Install software and drivers from CD.



Note: For an easier installation of this product, it is important to install software and drivers **before** plugging any of the two Adapters to your PC.

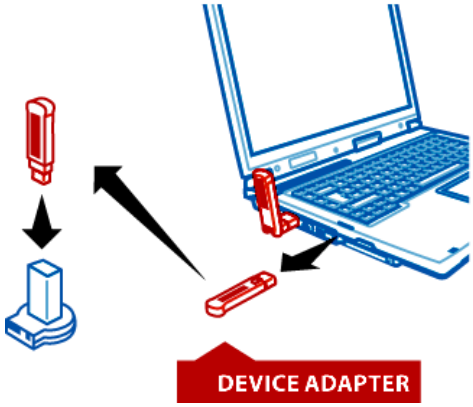
Plug the PC Adapter into a USB port of your PC(best performances with USB 2.0) and wait for drivers' activation.

Plug the Device Adapter into another USB port of your PC , keeping the PC Adapter connected and wait for drivers' activation.



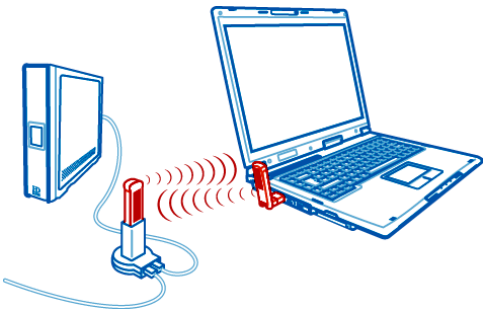
Wait for Adapters association procedure to complete, until "Device Adapter has been paired" message is shown.

Unplug the Device Adapter from PC and plug it into USB cradle.



Complete the installation procedure by plugging USB device and power supply into the USB cradle.

Now you can work wirelessly with your USB device.



For more details see next chapters.

2 Software installation

This paragraph describes in details software and drivers installation procedure.

Note: If a previous version of Wireless USB Adapter Set software has been previously installed on your system, please remove it before continuing with newer version.

Make sure that none of the two Adapters is plugged into your PC, then insert the CD and wait for installation to auto-start. If it does not occur in a few seconds, proceed with manual start from Windows "Computer resources".

2.1 Installation on Windows XP

First, the installer asks to choose the language:

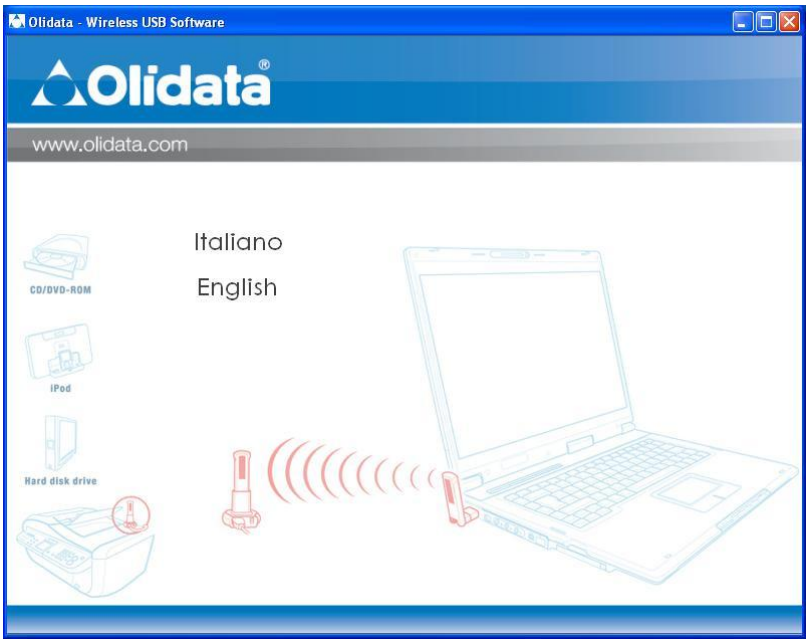


Figure 2: Language selection

Then a welcome screen presents a menu with the following options:

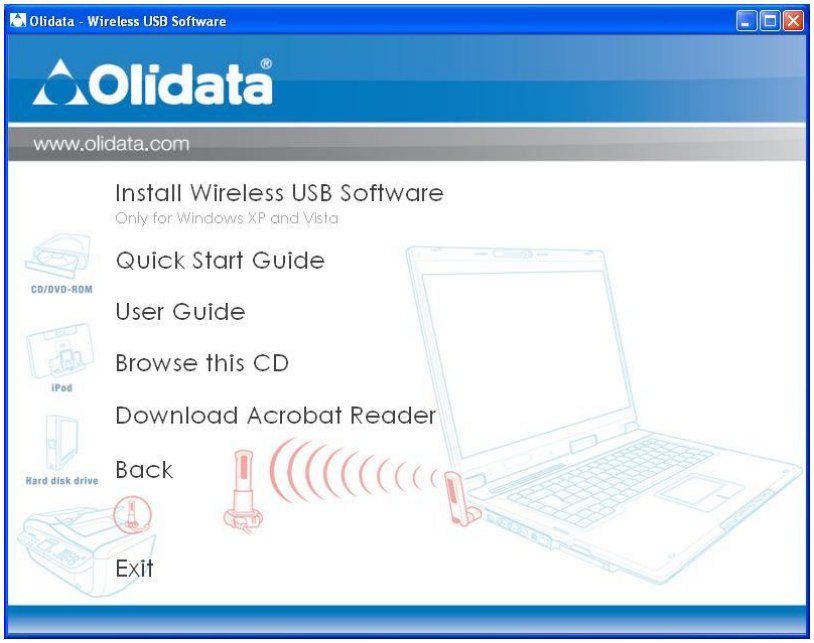


Figure 3: Main menu windows

- **Install Wireless USB Software:** to start software and driver installation;
- **Quick Start Guide:** to open the Quick Start Guide from CD;
- **User Guide:** to open this User Guide from CD;
- **Browse this CD:** to open explorer window to browse the CD content;
- **Download Acrobat Reader**: to download Adobe Acrobat Reader ®, needed to read documents from CD (internet connection needed);
- **Back:** to go back to language selection window;
- **Exit:** to exit application.

The first choice runs final software and drivers' installation.

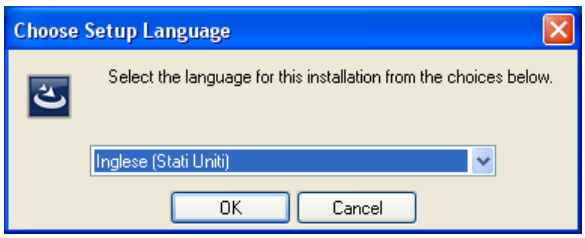


Figure 4: Again, language selection

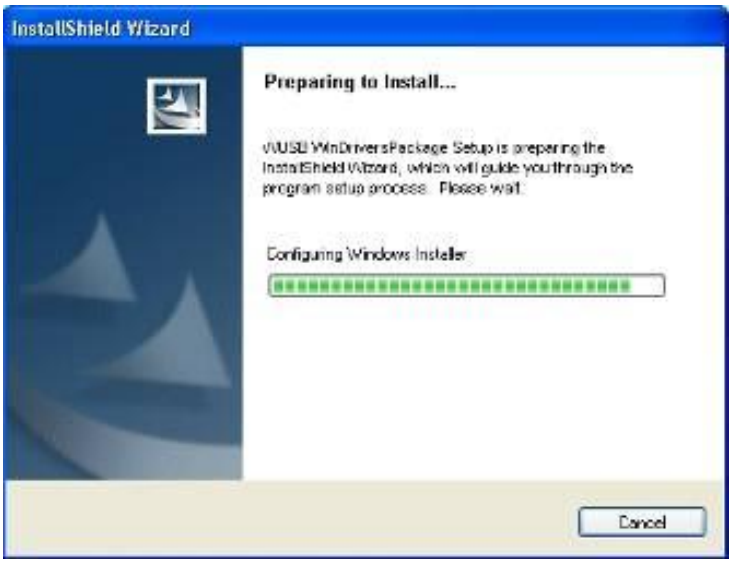


Figure 5: Installation wizard

A different destination folder can be chosen.

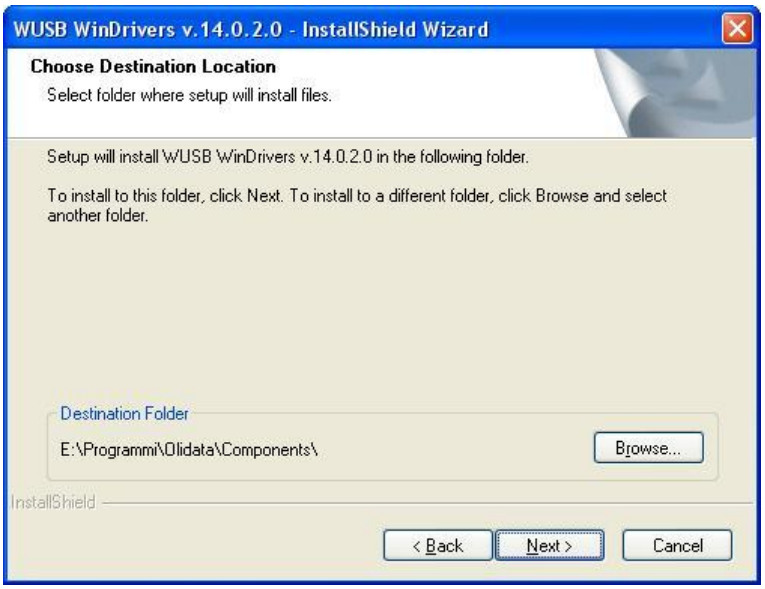

WUSB WinDrivers v.14.0.2.0 - InstallShield Wizard
Choose Destination Location
Select folder where setup will install files.
Setup will install WUSB WinDrivers v.14.0.2.0 in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
E:\Programmi\Olidata\Components\
Browse...
InstallShield
< Back
Next >
Cancel

Figure 6: Destination folder selection

Then simply follow all steps suggested by wizard to complete installation.

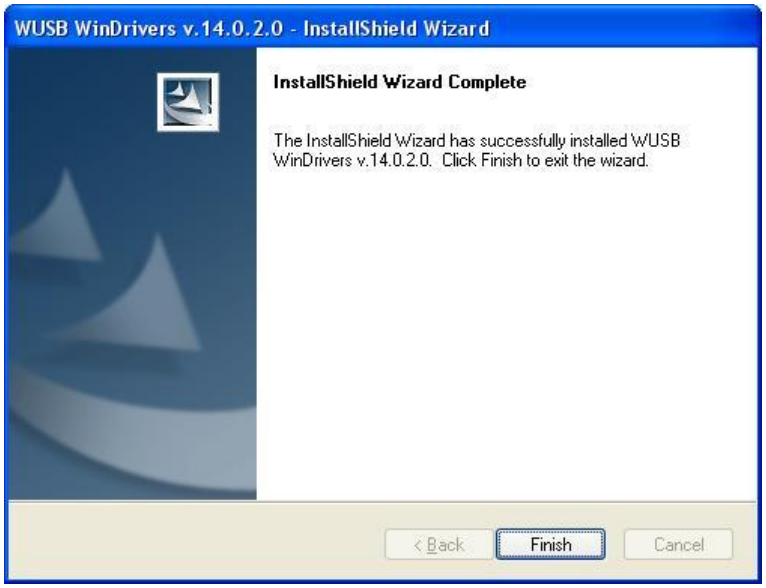

WUSB WinDrivers v.14.0.2.0 - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed WUSB WinDrivers v.14.0.2.0. Click Finish to exit the wizard.
< Back
Finish
Cancel

Figure 7: Installation completed

2.2 Installation on Windows Vista

First, the installer asks to choose the language:

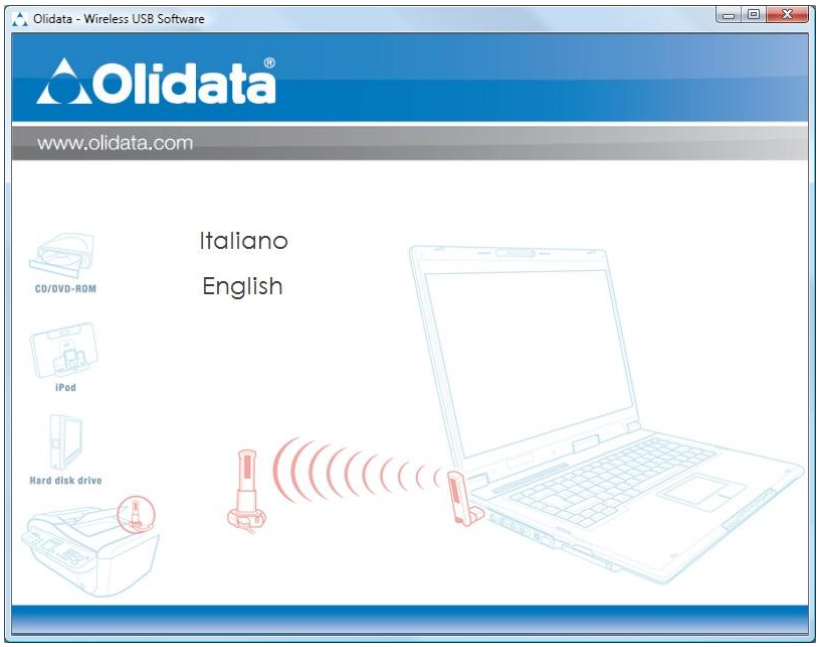


Figure 8: Language selection

Then a welcome screen presents a menu with the following options:

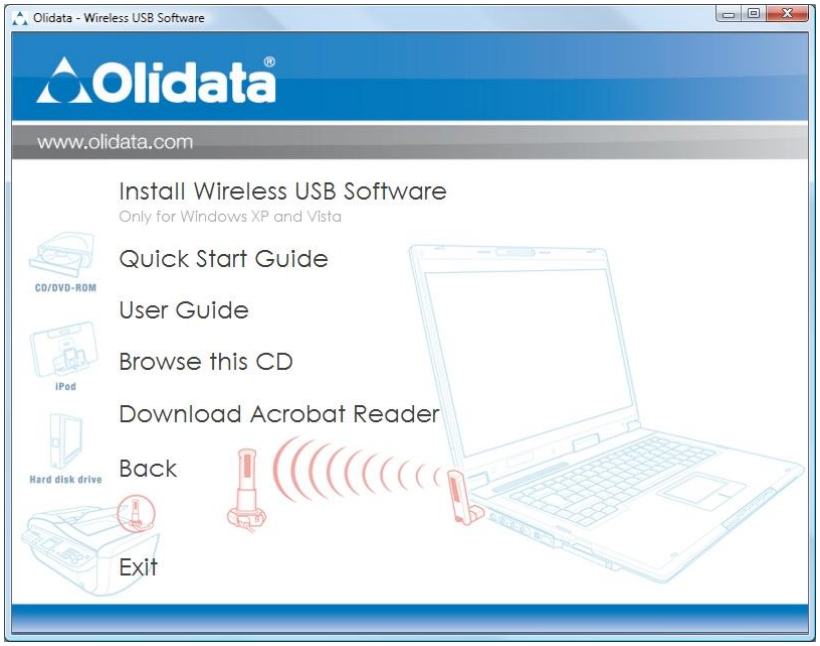


Figure 9: Main menu windows

- **Install Wireless USB Software:** to start software and driver installation;
- **Quick Start Guide:** to open the Quick Start Guide from CD;
- **User Guide:** to open this User Guide from CD;
- **Browse this CD:** to open explorer window to browse the CD content;
- **Download Acrobat Reader**: to download Adobe Acrobat Reader ®, needed to read documents from CD (internet connection needed);
- **Back:** to go back to language selection window;
- **Exit:** to exit application.

The first choice runs final software and driver's installation.

Figure 10: Language selection

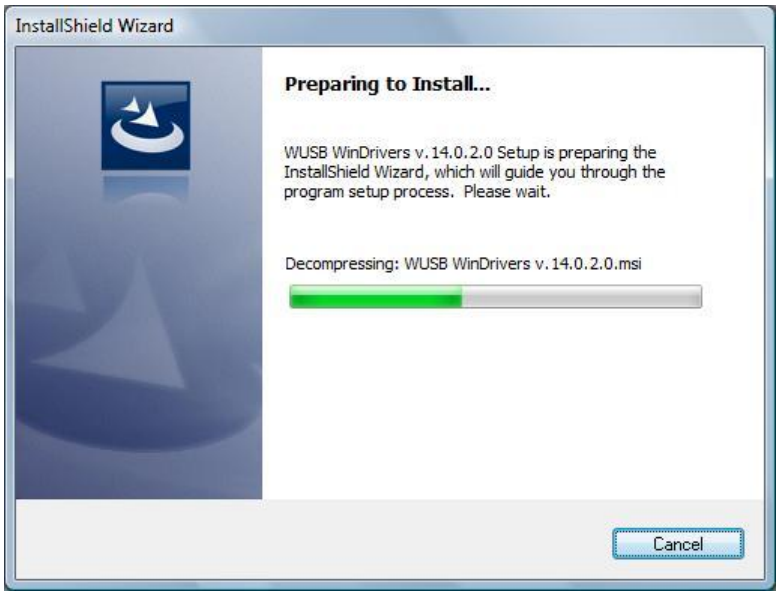

InstallShield Wizard
Preparing to Install...
WUSB WinDrivers v.14.0.2.0 Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
Decompressing: WUSB WinDrivers v.14.0.2.0.msi
Cancel

Figure 11: Installation wizard

A different destination folder can be chosen.

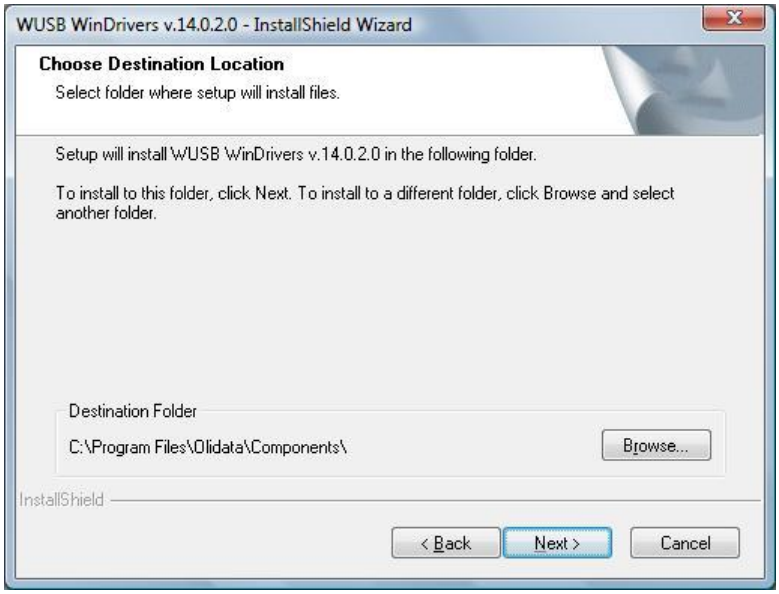

WUSB WinDrivers v.14.0.2.0 - InstallShield Wizard
Choose Destination Location
Select folder where setup will install files.
Setup will install WUSB WinDrivers v.14.0.2.0 in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\Olidata\Components\
Browse...
InstallShield
< Back
Next >
Cancel

Figure 12: Destination folder selection

Then simply follow all the steps suggested by wizard to complete installation.

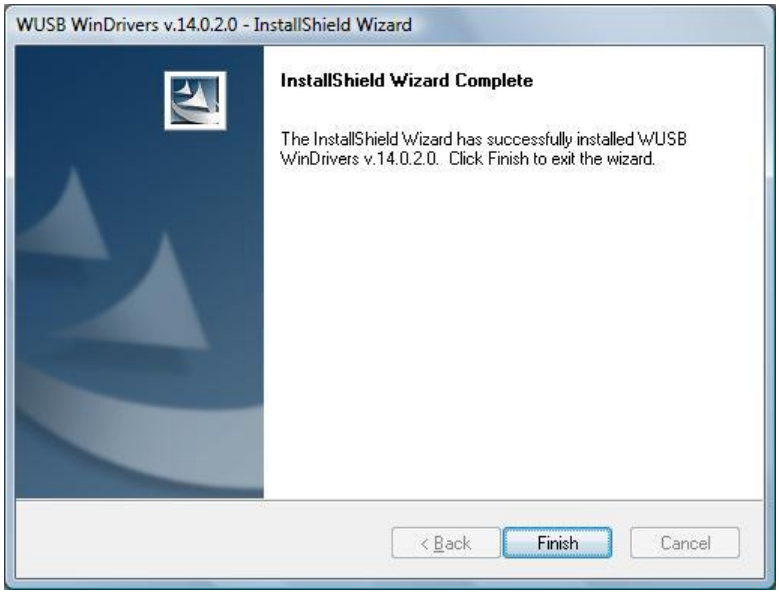

WUSB WinDrivers v.14.0.2.0 - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed WUSB WinDrivers v.14.0.2.0. Click Finish to exit the wizard.
< Back
Finish
Cancel

Figure 13: Installation completed

3 First use

This chapter describes the correct use of the Wireless USB Adapter Set.

3.1 Suggestions for a better use

Taking care of this product helps keep it in good operational conditions, and it may also extend its life time.

It is also recommended to avoid, as much as possible, any sudden change of temperature, humid and dust environments as well as mechanical shocks and stress.

Finally, in order to maximize performances try, to keep dongles in vertical position, as they use radio antennas for transmission.

3.2 How to connect the PC Adapter

Plug the PC Adapter into one of the USB ports available on your PC (choose an USB 2.0 port when possible).
The system will detect it and start a standard driver activation wizard. Follow its instructions to get drivers activated.
Then the icon shown in the Windows bar notification area should change color, from grey into red. Red color means that the PC Adapter is ready, waiting for Device Adapter to get ready as well.

Note: If the icon does not turn into red color, see chapter 5 of the user guide: Troubleshooting.

Note: For further information on icon meaning, see paragraph 4.1 of the user guide.

3.3 Device Adapter pairing

The system keeps some permanent memory of all pairings so that in normal conditions, the pairing procedure does not need to be repeated.

During the pairing, keep the PC Adapter plugged into an USB port of your PC and plug the Device Adapter into another USB port, too.

The system will detect it and start a standard driver activation wizard. Follow its instructions to get drivers activated.

Figure 14: Drivers successfully loaded

Then wait for the pairing procedure to successfully complete, until the message "Device Adapter has been paired" is shown.

Figure 15: Pairing successfully completed

Unplug the Device Adapter from PC.

Note: If pairing procedure fails, see chapter 5 of the user guide: Troubleshooting.

3.4 Device Adapter installation

Insert the Device Adapter on top of USB cradle and plug in the power supply jack, too.

After some while, the icon shown in the Windows bar notification area must turn from red into green , as shown in the following figure:

Figure 16: The icon

The two Adapters are now connected.

Note: If the icon does not turn into green color, see chapter 5 of the user guide: Troubleshooting.

3.5 USB device connection

It is now possible to plug the USB device into the bottom of USB cradle as well, close to the power supply jack.

Windows should detect the USB device and should send common USB notifications until the USB device is connected and ready to be used. It is also possible that Windows tries to load USB device drivers, so let it complete the procedure.

4 Manager software

The Wireless USB Adapter Set includes a Wireless USB management software which allows the user to verify and manage Wireless USB connections and devices.

4.1 Icon meanings

When manager software is running, a *status* icon is shown in the Windows bar notification area. It indicates the *status* of PC Adapter, as described in the following chart:

Icon	Meaning
	Connected: a wireless connection is established with a Wireless USB device.
	PC Adapter Enabled: wireless USB PC Adapter is connected to the PC (PC Adapter is connected and on, but no Device Adapter is detected).
	PC Adapter not connected or disabled: wireless USB PC Adapter is disabled or not connected.
	Wireless USB channel is busy: low channel quality detected, but at least one Device Adapter is still connected; to improve connection quality, see chapter 5 of the user guide: Troubleshooting.
	Wireless USB channel is not available: no available channel detected; to improve connection quality, see chapter 5 of the user guide: Troubleshooting.

4.2 User interface

To open the manager software, right-click on the icon shown in the Windows bar notification area for contextual menu to be displayed as follow:

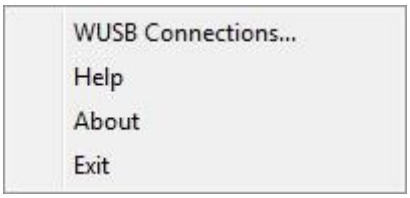


Figure 17: Icon contextual menu

The following chart explains menu options:

Menu option	Description
Wireless USB connections	Opens the manager software main window.
Help	Opens a quick help page.
About	Shows product information and driver versions.
Exit	Closes the application.

The second option opens the manager software main window, showing the list of known connections as well as their *status*.

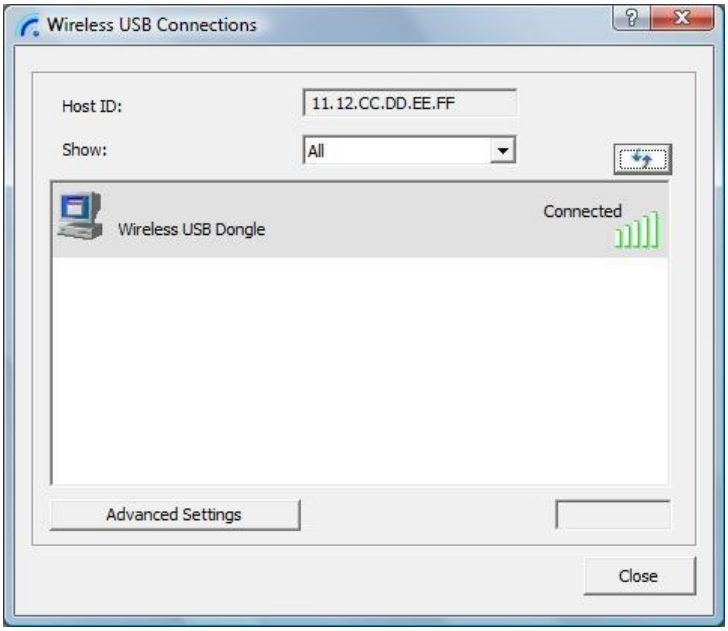


Figure 18: Manager software main window

The following chart explains the main window contents.

Item	Description
ID PC Adapter	Displays the unique ID number of connected PC Adapter
Show	Determines which elements populate the list: **All**: displays the complete list of all available devices, including those that have been blocked. **Connected**: displays the list of connected devices only. **Not connected**: displays the list of devices which are not connected and not blocked. **Blocked**: displays the list of WUSB devices which are blocked.

Connection status	**Blocked:** **Not connected:** **Connected:** **Medium:** **Intermediate:** **Good:** **Excellent:**
Advanced settings	Displays the Advanced Settings screen which allows verifying transmission settings.
Close	Closes the application window, but the application is still running.

4.3 Device Adapters management

The manager software allows the user to remove or temporarily disable known devices.

To temporarily disable a device, open the contextual menu by right-clicking on the chosen connection

Figure 19: Device contextual menu

and select option “Block device”. Device pairing is still available for future use.

To remove a device, select option “Disassociate device”. Device pairing is discarded. A new pairing procedure is needed to work with the same Device Adapter again.

It is also possible to modify connection names on the list, by simply double-clicking the name of the chosen connection.

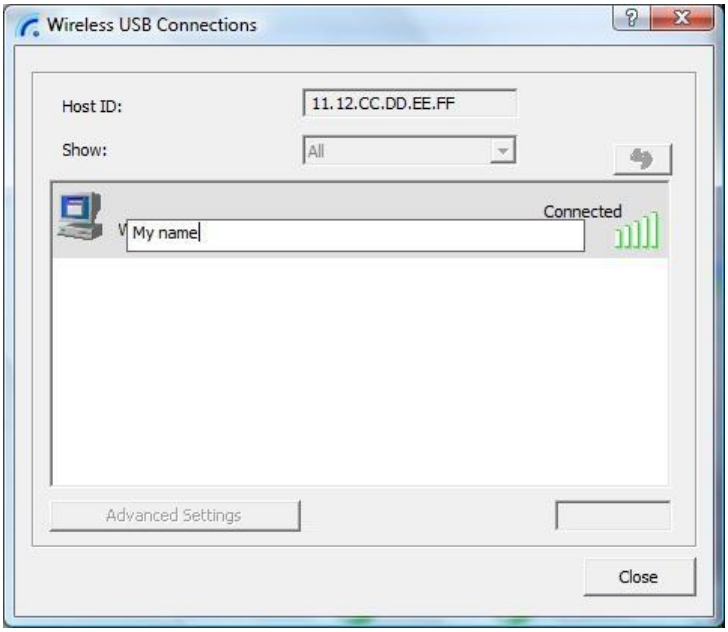


Figure 20: Editing device name

5 Troubleshooting

This chapter offers a quick support for common problem analysis.

Olidata Customer Care is available to help users during troubleshooting or to provide up-to-date software, drivers and documentation. Access Olidata website (www.olidata.com) to find all details.

5.1 Installation does not automatically start from CD

If driver installation does not start automatically, it is possible that this feature has been disabled in Windows. Access Windows Resource Manager to start it manually.

5.2 PC Adapter not found or not ready

If the system cannot detect the PC Adapter (grey icon), try the following steps:

- Unplug the PC Adapter, wait a few seconds for Windows to upload drivers, then plug it in again;
- If the previous step fails, close manager software by selecting "Exit" option from icon contextual menu (right-click), and then restart it.
- Last of all, restart the system.

5.3 Troubles with pairing procedure

If pairing procedure fails, (the following message is shown):

Figure 21: Pairing failed message

try the following steps:

- Unplug the Device Adapter, wait a few seconds for Windows to upload drivers, then plug it in again;
- If previous step fails, follow the same procedure with the PC Adapter;
- If previous step fails, follow the same procedure with both Adapters;
- Last of all, unplug all Adapters and restart the system.

5.3.1 No PC Adapter found

If the following message is shown during pairing procedure,

Figure 22: No PC Adapter found

make sure that at least one PC Adapter is plugged (see also paragraph 5.2 of the user guide), and try again.

5.4 My USB device is not found

If the USB device is connected to USB cradle and it is not detected by Windows, first check that PC Adapter is working well (see paragraph 5.2 of the user guide.). If the problem does persist, check the possible causes within the following:

- **Device Adapter is not powered**: make sure that USB cradle is connected to fully functional power supply;
- **Device Adapter is not within operational range**: try to shorten distance between PC Adapter and Device Adapter. The maximum range is 30 feet, but it can be affected by environment conditions;
- **Obstacles between PC Adapter and Device Adapter**: it is recommended to keep space clear between PC Adapter and Device Adapter (pay special attention to metallic objects);
- **Pairing failed**: try pairing procedure again (see paragraph 0 of user guide);
- **PC Adapter not detected**: carry out checks described on paragraph 5.2 of the user guide;
- **This USB device is not supported yet**: this is a really recent technology still under development. It can occur that some USB devices are not fully supported yet, especially the older ones. Several device categories are still under development and will be fully supported in the future (eg.: several webcams, microphones, audio USB cards and almost all audio-enabled devices). Please contact Olidata Customer Care to obtain more info.

5.5 My USB device frequently disconnects

If the USB device frequently looses connection, it may be due to the distance between PC and Device Adapters or by interfering obstacles. Please, try to shorten distance or keep space clear.

5.6 Other diagnosis tools

5.6.1 LED indications

It is possible to verify Adapters *statuses* by interpreting LED behaviors:

- **Off**: the Adapter is not powered;
- **On**: the Adapter is powered;
- **Blinking**: traffic.

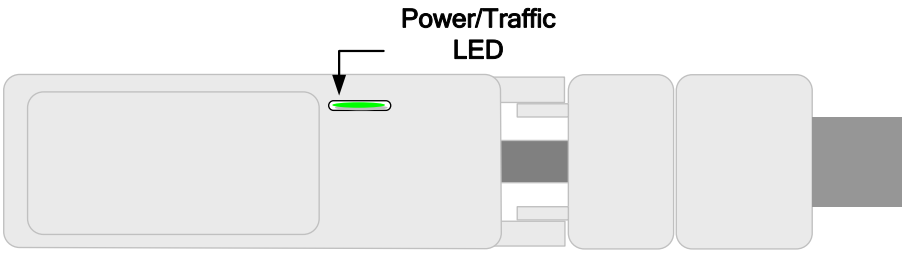


Figure 23: LED position on PC Adapter

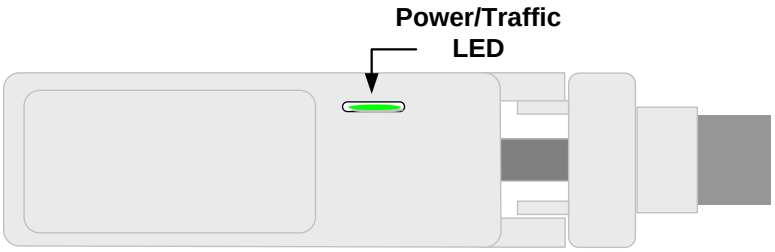


Figure 24: LED position on Device Adapter

5.6.2 Drivers installation check

Expert users can verify driver's installation by opening Windows "Device Manager" window and by browsing the USB device tree. When the PC Adapter is connected, it should be shown in the tree, as in the following example:

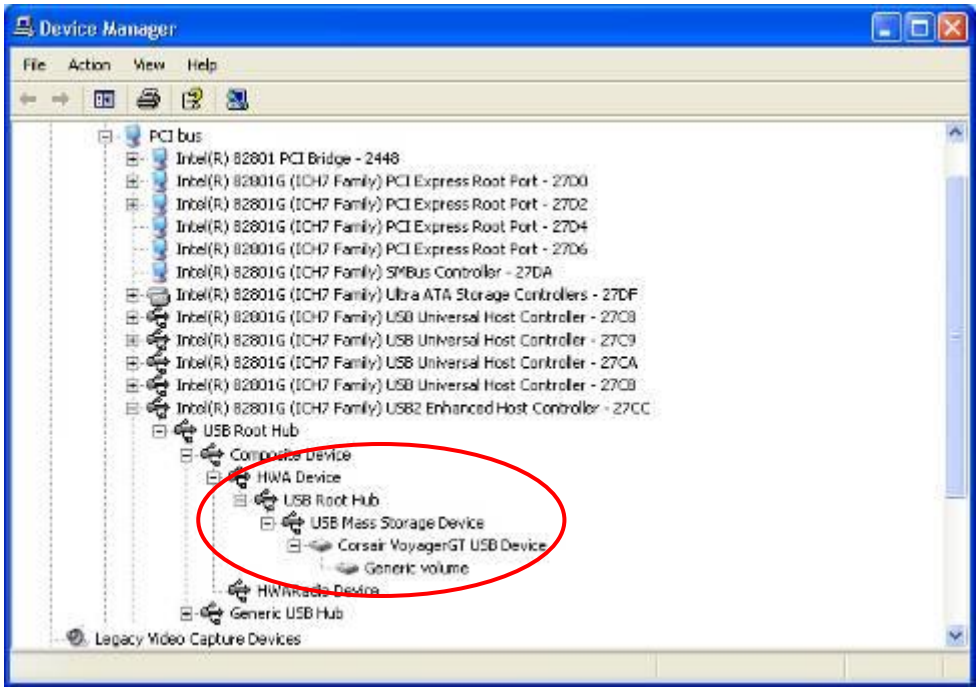

Device Manager
File Action View Help
PCI bus
Intel(R) 82801 PCI Bridge - 2448
Intel(R) 82801G (ICH7 Family) PCI Express Root Port - 27D0
Intel(R) 82801G (ICH7 Family) PCI Express Root Port - 27D2
Intel(R) 82801G (ICH7 Family) PCI Express Root Port - 27D4
Intel(R) 82801G (ICH7 Family) PCI Express Root Port - 27D6
Intel(R) 82801G (ICH7 Family) SMBus Controller - 27DA
Intel(R) 82801G (ICH7 Family) Ultra ATA Storage Controllers - 27DF
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C8
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C9
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CA
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CB
Intel(R) 82801G (ICH7 Family) USB2 Enhanced Host Controller - 27CC
USB Root Hub
Composite Device
HWA Device
USB Root Hub
USB Mass Storage Device
Corsair VoyagerGT USB Device
Generic volume
Generic USB Hub
Legacy Video Capture Devices

Figure 25: Device Manager window

6 Technical specifications

Operational range	Up to 30 feet line of sight.
Frequencies range	U.S.A.: 3.1GHz to 4.8GHz. Europe/Japan/Korea: 4.2GHz to 4.8GHz.
Dimensions	PC Adapter: 107 mm x 20 mm x 9 mm. Device Adapter: 96 mm x 20 mm x 9 mm.
Power supply	PC Adapter: directly powered by USB port. Device Adapter: powered by USB cradle, 5VDC+/-10% @. 1A (positive polarity) 2.5W.
Operating temperature	0°C a +70°C.
USB pairing type	Cable pairing through PC USB ports.
Security	Standard WUSB 128-bit AES.
Regulations compliance	USB 2.0/1.1. Wireless USB v. 1.0. WiMedia PHY rev. 1.1, MAC rev 1.0. FCC CFR 47 Part 15. Europe EN 302 065, Japan Radio Law, Korea MIC.
Operating systems	Microsoft Windows™ XP w/ Service Pack 2 or 3, Microsoft. Windows™ Vista w/ Service Pack 1.

7 Environment preservation

Particular attention must be payed to environment preservation. Specific disposal regulations of different countries must be observed.

Please refer to law regulations in force at the moment of disposal. Pay attention to correctly identify and classify all involved materials.